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☐ 1. Document ID: JP 07149519 A

L1: Entry 1 of 2

File: JPAB

Jun 13, 1995

PUB-NO: JP407149519A

DOCUMENT-IDENTIFIER: JP 07149519 A

TITLE: PRODUCTION OF SPINEL-TYPE DOUBLE OXIDE

PUBN-DATE: June 13, 1995

## INVENTOR-INFORMATION:

NAME

INUI, SATOYUKI

INOUE, MASASHI

AKIKAZU, HIROSHI

OTSU, HIROYUKI

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## ASSIGNEE-INFORMATION:

NAME

KAWAKEN FINE CHEM CO LTD

NAGASE &amp; CO LTD

COUNTRY

APPL-NO: JP03356364

APPL-DATE: December 24, 1991

INT-CL (IPC): C01 G 15/00; C01 G 9/00

## ABSTRACT:

PURPOSE: To obtain a spinel-type double oxide useful as a catalyst carrier by heating a specific aluminum or gallium compound together with zinc acetate in a glycol at a specific temperature.

CONSTITUTION: A spinel-type double oxide having small particle diameter and large surface area (e.g. average particle diameter of 4-10nm and BET surface area of 100-400m<sup>2</sup>/g) is produced by heating and reacting 2mol of an aluminum or gallium compound of formula I [M is Al or Ga; R1 to R3 are hydroxyl, a 1-20C alkoxyl, carboxyl or a group of formula II (R4 is a 1-20C alkyl or an alkoxyl)] with 0.95-1.05mol of zinc acetate in a glycol at 210-350°C for about 2hr using an autoclave.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNIC
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☐ 2. Document ID: JP 07149519 A

L1: Entry 2 of 2

File: DWPI

Jun 13, 1995

DERWENT-ACC-NO: 1995-243517  
DERWENT-WEEK: 199532  
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TITLE: Producing spinel type double oxide - used for catalyst support heating metal alkoxide with zinc acetate in glycol

## PATENT-ASSIGNEE:

ASSIGNEE

KAWAKEN FINE CHEM CO LTD

NAGASE SANGYO KK

CODE

KAWF

NAGS

PRIORITY-DATA: 1991JP-0356364 (December 24, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07149519 A	June 13, 1995		003	C01G015/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 07149519A	December 24, 1991	1991JP-0356364	

INT-CL (IPC): C01 G 9/00; C01 G 15/00

ABSTRACTED-PUB-NO: JP 07149519A

## BASIC-ABSTRACT:

Spinel type double oxide is produced by heating a specific cpd. of formula(I) with zinc acetate in glycol at 210-350 deg. C. M = Al or Ga; R1, R2 and R3 = OH, 1-20C alkoxyl gp., carboxyl gp., gp. given by formula(II). R4 = 1-20 alkyl or alkoxy gp..

USE - For a catalyst support for a cyclohexane or lower paraffin dehydrogenation.

ADVANTAGE - Spinel type double oxide such as ZnAl<sub>2</sub>O<sub>4</sub> or ZnGa<sub>2</sub>O<sub>4</sub> with a larger surface area can be obtd..

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE SPINEL TYPE DOUBLE OXIDE CATALYST SUPPORT HEAT METAL ALKOXIDE  
ZINC ACETATE GLYCOL

DERWENT-CLASS: E19 H04 J04

CPI-CODES: E10-J02A1; E10-J02C3; E11-E; H04-E03; H04-F02E; J04-E03; N01-C; N03-F;  
N03-G; N06-F;

## CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

A313 A331 A430 A940 C108 C550 C730 C801 C802 C803  
C804 C805 C807 M411 M720 M730 M903 M904 N514 Q421  
Q423

Markush Compounds

199532-B5801-C 199532-B5801-P

Chemical Indexing M3 \*02\*

Fragmentation Code

G000 G561 G562 H721 M210 M211 M212 M213 M214 M215  
M216 M220 M221 M222 M223 M224 M231 M232 M233 M280  
M320 M415 M416 M510 M520 M530 M541 M610 M720 M903

M904 N224 N312 N441 Q417 Q419  
Specific Compounds  
00914P 11289P 90123P

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0247S; 0913S ; 1371S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-111690

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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